

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-7 (Cancelled).

Claim 8 (new): A system for positioning a patient on a bed, said system comprising:

a camera system capable of producing output data representative of a portion of the patient wherein said output data is referenced in camera coordinates;

a memory storage device having reconstructed view data of the portion of the patient, said reconstructed view is referenced in scan data coordinates;

a processor, said processor receiving said output data and said reconstructed view data, and generating first and second directional data values; and

an apparatus for positioning the bed, said apparatus moving the bed in a first direction and in a second direction in response to the respective first and second directional data values.

Claim 9 (new): The system of claim 8, wherein the memory storage device is included in a computer.

Claim 10 (new): The system of claim 8, wherein the processor is included in a computer.

Claim 11 (new): The system of claim 8, wherein the apparatus includes a motor operatively coupled to the bed.

Claim 12 (new): The system of claim 8, wherein at least one marker is attached to the patient and is detectable by said camera system.

Claim 13 (new): A method of positioning a patient on a bed comprising the steps of:

determining first outline data of a portion of the patient, said first outline data referenced in camera coordinates;

retrieving second outline data of the portion of the patient, said second outline data referenced in scan data coordinates;

comparing said first outline data to said second outline data;

generating first and second directional data values;

moving the patient in a first direction in response to the first directional data value; and

moving the patient in a second direction in response to the second directional data value.

Claim 14 (new): The method of claim 13, wherein the step of determining the first outline data further includes the steps of:

attaching at least one marker to the patient; and

imaging the patient and the at least one marker with a camera system.

Claim 15 (new): The method of claim 13, wherein the step of comparing said first outline data to said second outline data further includes the step of:

performing a mathematical operation.

Claim 16 (new): The method of claim 15, wherein the step of performing the mathematical operation includes a computer for receiving said first outline data and said second outline data.

Claim 17 (new): The method of claim 13, wherein the step of generating first and second directional data values includes a computer for processing said first outline data and said second outline data.

Claim 18 (new): The method of claim 13, wherein the steps of moving the patient in the first direction and moving the patient in the second direction includes at least one motor operatively coupled to the bed, said motor responsive to the first directional data value and the second directional data value.